Lab ID : CP-2020-12-09-26 Date: 08-05-21

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	202	80678	356.7	4.4	4.6
2	402	202	81277	358.7	4.4	
3	402	201	80814	362.3	4.5	
4	400	199	79617	358.9	4.5	
5	401	203	81313	372.8	4.6	
6	404	201	81249	364.8	4.5	
7	400	199	79721	390.8	4.9	
8	403	200	80674	382.3	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST RESULTS OF STEEL

ab ID : **CP-2020-12-09-26** **Date: 21-04-21**

roject Name : "Improvements to Roads and Drains at Kuvempunagara 2nd Stage and Surrounding Area in Ward No.11 Kuvempunagara."

gency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

ustomer's Reference : BBMP/EE/BTP/WO/142/2019-20

ate of Receipt : 20-04-21

mple Type : Sunvik

ference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

te of test: : 20-04-21

No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

e results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

: **CP-2020-12-09-26** **Date: 10-05-21**

Name : "Improvements to Roads and Drains at Kuvempunagara 2nd Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

er's Reference : BBMP/EE/BTP/WO/142/2019-20

Receipt : 05-05-21

Type /Size : Precast Cover Slab (100mm)

e to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

test : 05/05/2021

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

lts obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Date: 10-05-21

ID	:	**CP-2020-12-09-26**
ject Name	:	"Improvements to Roads and Drains at Kuvempunagara 2nd Stage and Surrounding Area in Ward No.11 Kuvempunagara."
ncy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
tomer's Reference	:	BBMP/EE/BTP/WO/142/2019-20
e of Receipt	:	06-05-21
ple Type /Size	:	CC Kerb Stone/ 450*165*400mm
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
e of test	:	06/05/2021

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

esults obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ıb ID : **CP-2020-12-09-26** **Date: 18/05/2021**

'oject Name : "Improvements to Roads and Drains at Kuvempunagara 2nd Stage and Surrounding Area in Ward No.11 Kuvempunagara."

gency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

ıstomer's Reference : BBMP/EE/BTP/WO/142/2019-20

ıte of Receipt : 13-05-21

ıstomer ID : Flagging Course Concrete ,(Kaliyamma Temple Road)

ımple Type /Size : 150X150X150 mm

ımple grade/Age : M15 / 7 Days Compressive Strength

eference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

ıte of test : 18/05/2021

L. o.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Flagging Course Concrete	M15	11/05/2021	18/05/2021	151.76 X 149.25 X 151.79	22650	**8.077**	287.9	12.7	12.8
	Flagging Course Concrete	M15	11/05/2021	18/05/2021	151.61 X 150.23 X 149.13	22777	**8.001**	289.1	12.7	
	Flagging Course Concrete	M15	11/05/2021	18/05/2021	151.79 X 151.46 X 149.09	22991	**8.829**	297.2	12.9	

ıe results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2020-12-09-26** **Date: 08/06/2021**
ject Name	:	"Improvements to Roads and Drains at Kuvempunagara 2nd Stage and Surrounding Area in Ward No.11 Kuvempunagara."
ency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
stomer's Reference	:	BBMP/EE/BTP/WO/142/2019-20
e of Receipt	:	13-05-21
stomer ID	:	Flagging Course Concrete ,(Kaliyamma Temple Road)
nple Type /Size	:	150X150X150 mm
nple grade/Age	:	M15 / 28 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	08/06/2021

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Flagging Course Concrete	M15	11/05/2021	08/06/2021	150.44 X 151.56 X 151.96	22800	**8.408**	409.0	17.9	17.6
	Flagging Course Concrete	M15	11/05/2021	08/06/2021	150.65 X 149.03 X 149.58	22451	**8.842**	401.5	17.9	
	Flagging Course Concrete	M15	11/05/2021	08/06/2021	151.16 X 149.50 X 150.38	22599	**8.486**	385.6	17.1	

results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

o ID : **CP-2020-12-09-26** **Date: 18/05/2021**

ject Name : "Improvements to Roads and Drains at Kuvempunagara 2nd Stage and Surrounding Area in Ward No.11 Kuvempunagara."

ency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

stomer's Reference : BBMP/EE/BTP/WO/142/2019-20

e of Receipt : 13-05-21

stomer ID : Flagging Course Concrete ,(Triveni Road)

mple Type /Size : 150X150X150 mm

mple grade/Age : M15 / 7 Days Compressive Strength

erence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

e of test : 18/05/2021

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Flagging Course Concrete	M15	11/05/2021	18/05/2021	151.02 X 150.06 X 149.18	22661	**8.077**	289.9	12.8	12.4
	Flagging Course Concrete	M15	11/05/2021	18/05/2021	149.80 X 149.94 X 149.37	22462	**8.001**	278.7	12.4	
	Flagging Course Concrete	M15	11/05/2021	18/05/2021	149.38 X 149.15 X 149.25	22280	**8.829**	270.5	12.1	

e results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/06/2021

ID	:	**CP-2020-12-09-26**
ect Name	:	"Improvements to Roads and Drains at Kuvempunagara 2nd Stage and Surrounding Area in Ward No.11 Kuvempunagara."
ncy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
tomer's Reference	:	BBMP/EE/BTP/WO/142/2019-20
e of Receipt	:	13-05-21
tomer ID	:	Flagging Course Concrete ,(Triveni Road)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M15 / 28 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	08/06/2021

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Flagging Course Concrete	M15	11/05/2021	08/06/2021	151.21 X 151.97 X 151.81	22980	**8.408**	394.1	17.1	17.3
	Flagging Course Concrete	M15	11/05/2021	08/06/2021	151.29 X 149.22 X 151.58	22577	**8.842**	393.8	17.4	
	Flagging Course Concrete	M15	11/05/2021	08/06/2021	149.85 X 150.78 X 151.51	22594	**8.486**	392.5	17.4	

e results obtained are satisfactory as per standard requirements.

AEE (WRP) SD

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TEST REPORT OF CEMENT CONCRETE CUBES

ab ID : CP-2020-12-09-26 **Date: 18/05/2021**

roject Name : "Improvements to Roads and Drains at Kuvempunagara 2nd Stage and Surrounding Area in Ward No.11 Kuvempunagara."

gency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

ustomer's Reference : BBMP/EE/BTP/WO/142/2019-20

ate of Receipt : 13-05-21

ustomer ID : Flagging Course Concrete ,(Chowddya Road)

mple Type /Size : 150X150X150 mm

mple grade/Age : M15 / 7 Days Compressive Strength

eference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

te of test : 18/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Flagging Course Concrete	M15	11/05/2021	18/05/2021	151.41 X 149.20 X 149.63	22590	**8.077**	293.3	13.0	12.8
	Flagging Course Concrete	M15	11/05/2021	18/05/2021	149.27 X 151.48 X 151.87	22612	**8.001**	289.0	12.8	
	Flagging Course Concrete	M15	11/05/2021	18/05/2021	151.96 X 151.71 X 151.45	23054	**8.829**	292.6	12.7	

e results obtained are satisfactory as per standard requirements.

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Page 1/1
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TEST REPORT OF CEMENT CONCRETE CUBES

ab ID	:	**CP-2020-12-09-26** **Date: 08/06/2021**
roject Name	:	"Improvements to Roads and Drains at Kuvempunagara 2nd Stage and Surrounding Area in Ward No.11 Kuvempunagara."
gency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
ustomer's Reference	:	BBMP/EE/BTP/WO/142/2019-20
ate of Receipt	:	13-05-21
ustomer ID	:	Flagging Course Concrete ,(Chowddya Road)
ample Type /Size	:	150X150X150 mm
ample grade/Age	:	M15 / 28 Days Compressive Strength
eference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
ate of test	:	08/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flagging Course Concrete	M15	11/05/2021	08/06/2021	149.65 X 149.41 X 150.23	22360	**8.408**	400.8	17.9	17.6
2	Flagging Course Concrete	M15	11/05/2021	08/06/2021	150.80 X 149.29 X 149.98	22513	**8.842**	388.0	17.2	
3	Flagging Course Concrete	M15	11/05/2021	08/06/2021	150.14 X 149.87 X 150.03	22501	**8.486**	394.1	17.5	

he results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/05/2021

ID	:	**CP-2020-12-09-26**
ect Name	:	"Improvements to Roads and Drains at Kuvempunagara 2nd Stage and Surrounding Area in Ward No.11 Kuvempunagara."
ncy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
tomer's Reference	:	BBMP/EE/BTP/WO/142/2019-20
of Receipt	:	06-05-21
tomer ID	:	Drain Bottom Raft Concrete, (Hosabalu Nagara Cross road)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	11/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft Concrete	M20	04/05/2021	11/05/2021	149.99 X 150.27 X 151.64	22538	**8.287**	409.1	18.2	18.4
Drain Bottom Raft Concrete	M20	04/05/2021	11/05/2021	150.45 X 151.63 X 151.42	22812	**9.005**	412.9	18.1	
Drain Bottom Raft Concrete	M20	04/05/2021	11/05/2021	151.87 X 151.39 X 150.76	22992	**8.977**	433.3	18.8	

results obtained are satisfactory as per standard requirements.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ab ID	:	CP-2020-12-09-26 **Date: 01/06/2021**
roject Name	:	"Improvements to Roads and Drains at Kuvempunagara 2nd Stage and Surrounding Area in Ward No.11 Kuvempunagara."
gency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280. 59th Cross Road. 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
ustomer's Reference	:	BBMP/EE/BTP/WO/142/2019-20
ate of Receipt	:	06-05-21
ustomer ID	:	Drain Bottom Raft Concrete, (Hosabalu Nagara Cross road)
ample Type /Size	:	150X150X150 mm
ample grade/Age	:	M20 / 28 Days Compressive Strength
eference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
ate of test	:	01/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	04/05/2021	01/06/2021	151.11 X 150.68 X 151.58	22770	**8.827**	546.2	24.0	23.6
2	Drain Bottom Raft Concrete	M20	04/05/2021	01/06/2021	149.99 X 150.77 X 150.54	22614	**8.770**	520.1	23.0	
3	Drain Bottom Raft Concrete	M20	04/05/2021	01/06/2021	149.77 X 151.23 X 150.05	22649	**8.601**	538.0	23.8	

he results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/05/2021

ID	:	**CP-2020-12-09-26**
ject Name	:	"Improvements to Roads and Drains at Kuvempunagara 2nd Stage and Surrounding Area in Ward No.11 Kuvempunagara."
ncy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
tomer's Reference	:	BBMP/EE/BTP/WO/142/2019-20
e of Receipt	:	06-05-21
tomer ID	:	Drain Bottom Raft Concrete, (3rd Main Road)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	11/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft Concrete	M20	04/05/2021	11/05/2021	150.09 X 151.27 X 149.48	22705	**8.287**	420.0	18.5	18.5
Drain Bottom Raft Concrete	M20	04/05/2021	11/05/2021	149.04 X 151.79 X 149.82	22623	**9.005**	411.2	18.2	
Drain Bottom Raft Concrete	M20	04/05/2021	11/05/2021	151.44 X 149.81 X 151.86	22688	**8.977**	428.0	18.9	

results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/06/2021

ab ID	:	**CP-2020-12-09-26**
oject Name	:	"Improvements to Roads and Drains at Kuvempunagara 2nd Stage and Surrounding Area in Ward No.11 Kuvempunagara."
gency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
stomer's Reference	:	BBMP/EE/BTP/WO/142/2019-20
te of Receipt	:	06-05-21
stomer ID	:	Drain Bottom Raft Concrete. (3rd Main Road)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 28 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	01/06/2021

L. o.	**Identification Mark**	**Grade of concrete**	**Date of Casting**	**Date of Testing**	**Dimension of the Specimen (mm)**	**Cross sectional area (Sq.mm)**	**Weight of the sample (kg)**	**Failure Load (KN)**	**Compressive strength (N/mm^2)**	**Average Compressive Strength (N/mm^2)**
	Drain Bottom Raft Concrete	M20	04/05/2021	01/06/2021	150.15 X 150.63 X 151.13	22618	**8.827**	533.9	23.6	23.2
	Drain Bottom Raft Concrete	M20	04/05/2021	01/06/2021	151.26 X 149.87 X 151.24	22669	**8.770**	517.7	22.8	
	Drain Bottom Raft Concrete	M20	04/05/2021	01/06/2021	149.59 X 150.56 X 149.25	22523	**8.601**	522.4	23.2	

ıe results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

D : CP-2020-12-09-26 **Date: 14/05/2021**

t Name : "Improvements to Roads and Drains at Kuvempunagara 2nd Stage and Surrounding Area in Ward No.11 Kuvempunagara."

y : Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

mer's Reference : BBMP/EE/BTP/WO/142/2019-20

f Receipt : 10-05-21

ner ID : Drain Side Wall Concrete, (Hosabalu Nagara Cross road)

e Type /Size : 150X150X150 mm

e grade/Age : M20 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

f test : 14/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	07/05/2021	14/05/2021	149.87 X 150.29 X 151.04	22524	**8.287**	405.7	18.0	18.2
Drain Side Wall Concrete	M20	07/05/2021	14/05/2021	150.49 X 150.47 X 150.50	22644	**9.005**	407.6	18.0	
Drain Side Wall Concrete	M20	07/05/2021	14/05/2021	149.63 X 150.95 X 151.06	22586	**8.977**	420.8	18.6	

ults obtained are satisfactory as per standard requirements.

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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TE/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-12-09-26 Date: 04/06/2021

Project Name : "Improvements to Roads and Drains at Kuvempunagara 2nd Stage and Surrounding Area in Ward No.11 Kuvempunagara."

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/142/2019-20

Date of Receipt : 10-05-21

Customer ID : Drain Side Wall Concrete, (Hosabalu Nagara Cross road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	07/05/2021	04/06/2021	151.34 X 150.11 X 150.80	22717	8.827	541.4	23.8	23.0
2	Drain Side Wall Concrete	M20	07/05/2021	04/06/2021	151.14 X 149.70 X 149.18	22625	8.770	499.7	22.1	
3	Drain Side Wall Concrete	M20	07/05/2021	04/06/2021	151.60 X 150.54 X 151.06	22822	8.601	528.9	23.2	

The results obtained are satisfactory as per standard requirements.

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****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

b ID	:	CP-2020-12-09-26 **Date: 14/05/2021**
oject Name	:	"Improvements to Roads and Drains at Kuvempunagara 2nd Stage and Surrounding Area in Ward No.11 Kuvempunagara."
ency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
stomer's Reference	:	BBMP/EE/BTP/WO/142/2019-20
te of Receipt	:	10-05-21
stomer ID	:	Drain Side Wall Concrete, (Hosabalu Nagara Cross road)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	14/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	07/05/2021	14/05/2021	149.79 X 150.45 X 151.16	22536	**8.287**	416.3	18.5	18.2
Drain Side Wall Concrete	M20	07/05/2021	14/05/2021	151.63 X 150.93 X 149.20	22886	**9.005**	414.1	18.1	
Drain Side Wall Concrete	M20	07/05/2021	14/05/2021	149.45 X 149.40 X 151.57	22328	**8.977**	405.7	18.2	

results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-12-09-26 **Date: 04/06/2021**

Project Name : "Improvements to Roads and Drains at Kuvempunagara 2nd Stage and Surrounding Area in Ward No.11 Kuvempunagara."

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/142/2019-20

Date of Receipt : 10-05-21

Customer ID : Drain Side Wall Concrete, (Hosabalu Nagara Cross road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	07/05/2021	04/06/2021	149.38 X 149.87 X 151.78	22389	**8.827**	521.0	23.3	23.1
2	Drain Side Wall Concrete	M20	07/05/2021	04/06/2021	150.73 X 149.23 X 151.23	22494	**8.770**	515.9	22.9	
3	Drain Side Wall Concrete	M20	07/05/2021	04/06/2021	151.91 X 150.69 X 149.14	22892	**8.601**	528.7	23.1	

The results obtained are satisfactory as per standard requirements.

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Page 1/1
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

b ID : **CP-2020-12-09-26** **Date: 15/05/2021**

oject Name : "Improvements to Roads and Drains at Kuvempunagara 2nd Stage and Surrounding Area in Ward No.11 Kuvempunagara."

ency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

stomer's Reference : BBMP/EE/BTP/WO/142/2019-20

te of Receipt : 10-05-21

stomer ID : Drain Side Wall Concrete, (3rd Main Road)

mple Type /Size : 150X150X150 mm

mple grade/Age : M20 / 7 Days Compressive Strength

ference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

te of test : 15/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Side Wall Concrete	M20	08/05/2021	15/05/2021	149.71 X 151.40 X 150.19	22667	**8.287**	408.8	18.0	18.2
2	Drain Side Wall Concrete	M20	08/05/2021	15/05/2021	149.14 X 150.81 X 149.91	22491	**9.005**	409.3	18.2	
3	Drain Side Wall Concrete	M20	08/05/2021	15/05/2021	151.25 X 150.24 X 150.51	22723	**8.977**	420.2	18.5	

The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-12-09-26 **Date: 05/06/2021**

Project Name : "Improvements to Roads and Drains at Kuvempunagara 2nd Stage and Surrounding Area in Ward No.11 Kuvempunagara."

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/142/2019-20

Date of Receipt : 10-05-21

Customer ID : Drain Side Wall Concrete, (3rd Main Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	08/05/2021	05/06/2021	150.13 X 151.09 X 149.90	22683	**8.827**	540.6	23.8	23.1
2	Drain Side Wall Concrete	M20	08/05/2021	05/06/2021	149.20 X 149.16 X 151.59	22254	**8.770**	498.4	22.4	
3	Drain Side Wall Concrete	M20	08/05/2021	05/06/2021	151.70 X 151.73 X 149.39	23017	**8.601**	529.5	23.0	

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

) ID	:	**CP-2020-12-09-26** **Date: 15/05/2021**
ject Name	:	"Improvements to Roads and Drains at Kuvempunagara 2nd Stage and Surrounding Area in Ward No.11 Kuvempunagara."
ncy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
tomer's Reference	:	BBMP/EE/BTP/WO/142/2019-20
e of Receipt	:	10-05-21
tomer ID	:	Drain Side Wall Concrete, (3rd Main Road)
nple Type /Size	:	150X150X150 mm
nple grade/Age	:	M20 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	15/05/2021

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Drain Side Wall Concrete	M20	08/05/2021	15/05/2021	151.38 X 150.74 X 149.81	22820	**8.287**	427.6	18.7	18.5
	Drain Side Wall Concrete	M20	08/05/2021	15/05/2021	150.86 X 151.70 X 149.56	22885	**9.005**	423.5	18.5	
	Drain Side Wall Concrete	M20	08/05/2021	15/05/2021	151.58 X 151.59 X 150.80	22978	**8.977**	417.5	18.2	

results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-09-26** **Date: 05/06/2021**

Project Name : "Improvements to Roads and Drains at Kuvempunagara 2nd Stage and Surrounding Area in Ward No.11 Kuvempunagara."

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 9th Cross Road, 17th C Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/142/2019-20

Date of Receipt : 10-05-21

Customer ID : Drain Side Wall Concrete, (3rd Main Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	08/05/2021	05/06/2021	149.35 X 150.16 X 151.33	22426	8.827	536.7	23.9	23.3
2	Drain Side Wall Concrete	M20	08/05/2021	05/06/2021	150.57 X 150.75 X 151.34	22698	8.770	511.8	22.5	
3	Drain Side Wall Concrete	M20	08/05/2021	05/06/2021	151.32 X 149.03 X 151.64	22552	8.601	525.3	23.3	

The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 31/05/2021

D	:	**CP-2020-12-09-26**
ct Name	:	"Improvements to Roads and Drains at Kuvempunagara 2nd Stage and Surrounding Area in Ward No.11 Kuvempunagara."
cy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
mer's Reference	:	BBMP/EE/BTP/WO/142/2019-20
f Receipt	:	26-05-21
mer ID	:	Cement Concrete Pavement , (RO Plant Road (church Back Side road))
le Type /Size	:	150X150X150 mm
le grade/Age	:	M30 / 7 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	31/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	24/05/2021	31/05/2021	151.75 X 150.40 X 149.72	22824	**8.576**	581.8	25.5	25.2
Cement Concrete Pavement	M30	24/05/2021	31/05/2021	149.92 X 149.39 X 149.20	22396	**8.888**	585.0	26.1	
Cement Concrete Pavement	M30	24/05/2021	31/05/2021	150.42 X 150.31 X 149.37	22610	**8.211**	543.4	24.0	

sults obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

b ID : **CP-2020-12-09-26** **Date: 21/06/2021**

oject Name : "Improvements to Roads and Drains at Kuvempunagara 2nd Stage and Surrounding Area in Ward No.11 Kuvempunagara."

ency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

stomer's Reference : BBMP/EE/BTP/WO/142/2019-20

te of Receipt : 26-05-21

stomer ID : Cement Concrete Pavement , (RO Plant Road (church Back Side road))

mple Type /Size : 150X150X150 mm

mple grade/Age : M30 / 28 Days Compressive Strength

ference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

te of test : 21/06/2021

l. o.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	24/05/2021	21/06/2021	150.00 X 149.48 X 151.52	22422	**9.070**	761.5	34.0	33.2
2	Cement Concrete Pavement	M30	24/05/2021	21/06/2021	149.53 X 151.18 X 151.04	22606	**9.031**	735.3	32.5	
3	Cement Concrete Pavement	M30	24/05/2021	21/06/2021	150.62 X 151.35 X 151.47	22796	**9.057**	756.9	33.2	

The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-12-09-26** **Date: 31/05/2021**

ame : "Improvements to Roads and Drains at Kuvempunagara 2nd Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

's Reference : BBMP/EE/BTP/WO/142/2019-20

eceipt : 26-05-21

ID : Cement Concrete Pavement , (RO Plant Road (church Back Side road))

ype /Size : 150X150X150 mm

rade/Age : M30 / 7 Days Compressive Strength

e to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

est : 31/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	24/05/2021	31/05/2021	150.97 X 151.49 X 149.11	22869	**8.576**	592.1	25.9	25.7
Cement Concrete Pavement	M30	24/05/2021	31/05/2021	149.37 X 151.21 X 149.99	22587	**8.888**	608.0	26.9	
Cement Concrete Pavement	M30	24/05/2021	31/05/2021	151.72 X 149.71 X 151.02	22714	**8.211**	549.0	24.2	

lts obtained are satisfactory as per standard requirements.

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Quality Manager

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